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L1	1	SIGNALS.CLM. AND BROADCAST$3.CLM. AND encrypt$3.clm. and decrypt$3.clm. and (smartcard.clm. or token.clm.) and memory.clm. and zone.clm.	US-PGPUB	OR	OFF	2005/11/08 22:41

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	SIGNALS.CLM. AND BROADCAST$3.CLM. AND encrypt$3.clm. and decrypt$3.clm. and (smartcard.clm. or token.clm.) and memory.clm. and zone.clm.	US-PGPUB	OR	OFF	2005/11/08 22:42
L2	201	SIGNALS AND BROADCAST$3 AND encrypt$3 and decrypt$3 and (smartcard or token) and memory and zone	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 22:46
L3	64	380/227	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 22:46
L4	3163	380/227 or 380/201 or 380/205 or 380/210 or 380/217 or 380/233 or 380/239 or 380/37 or 713/163 or 713/167 or 713/172	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 22:47
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1   Dynamic memory management for APL-like languages
Rodnay Zaks
May 1973   **ACM SIGPLAN Notices , Proceedings of the meeting on SIGPLAN/SIGMICRO interface,** Volume 9 Issue 8
Publisher: ACM Press
Full text available: 📄 pdf(694.50 KB)   Additional Information: full citation, abstract, references, index terms

Microprogramming a high-level language interpreter permits execution speeds to be achieved w rival large conventional systems. However, the limited size of current control memories impose: limitations on the complexity of the resident interpreter. An extremely terse APL interpreter has been developed and implemented by the author, which requires less than 2K words of control storage on a contemporary microprocessor. Two areas in which specially significant advances h: been achieved we ...

2   Timestamp snooping: an approach for extending SMPs
Milo M. K. Martin, Daniel J. Sorin, Anatassia Ailamaki, Alaa R. Alameldeen, Ross M. Dickson, Carl J. Mauer, Kevin E. Moore, Manoj Plakal, Mark D. Hill, David A. Wood
November 2000 **ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Syste Review , Proceedings of the ninth international conference on Architectura support for programming languages and operating systems ASPLOS-IX,** Vol 28 , 34 Issue 5 , 5
Publisher: ACM Press
Full text available: 📄 pdf(164.27 KB)   Additional Information: full citation, abstract, references, citings, index terms

Symmetric muultiprocessor (SMP) servers provide superior performance for the commercial workloads that dominate the Internet. Our simulation results show that over one-third of cache misses by these applications result in cache-to-cache transfers, where the data is found in anotl processor's cache rather than in memory. SMPs are optimized for this case by using snooping protocols that broadcast address transactions to all processors. Conversely, directory-based sha memory systems must indir ...

3   Timestamp snooping: an approach for extending SMPs
Milo M. K. Martin, Daniel J. Sorin, Anastassia Ailamaki, Alaa R. Alameldeen, Ross M. Dickson, Carl ? Mauer, Kevin E. Moore, Manoj Plakal, Mark D. Hill, David H. Wood
November 2000 **ACM SIGPLAN Notices,** Volume 35 Issue 11
Publisher: ACM Press
Full text available: 📄 pdf(1.30 MB)   Additional Information: full citation, abstract, references, citings, index terms

Symmetric multiprocessor (SMP) servers provide superior performance for the commercial workloads that dominate the Internet. Our simulation results show that over one-third of cache misses by these applications result in cache-to-cache transfers, where the data is found in anotl processor's cache rather than in memory. SMPs are optimized for this case by using snooping protocols that broadcast address transactions to all processors. Conversely, directory-based sha memory systems must indire ...

4 A location management technique to support lifelong numbering in personal communicatio services
Derek Lam, Yingwei Cui, Donald C. Cox, Jennifer Widom
January 1998 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 2 Issue
Publisher: ACM Press
Full text available: pdf(1.30 MB)   Additional Information: full citation, abstract, references, citings

This paper presents a novel *location management technique,* HOPPER, that is designed to suppc in a scalable and efficient manner non-geographical (lifelong) personal numbers in Personal Communications Services (PCS). Performance comparisons between our scheme and previous schemes are derived from large scale simulations using a realistic traffic modeling framework fo the ten largest cities of the United States. Results show that, in addition to inherently providing nongeographical numbe ...

5 Protecting applications with transient authentication
Mark D. Corner, Brian D. Noble
May 2003   **Proceedings of the 1st international conference on Mobile systems, applicatior and services MobiSys '03**
Publisher: ACM Press
Full text available: pdf(294.40 KB)   Additional Information: full citation, abstract, references

How does a machine know who is using it? Current systems authenticate their users infrequentl and assume the user's identity does not change. Such *persistent authentication* is inappropriate mobile and ubiquitous systems, where associations between people and devices are fluid and unpredictable. We solve this problem with *Transient Authentication*, in which a small hardware token continuously authenticates the user's presence over a short-range, wireless link. We pres the fo ...

6 A smartcard for authentication in WLANs
Marc Loutrel, Pascal Urien, Guy Pujolle
October 2003 **Proceedings of the 2003 IFIP/ACM Latin America conference on Towards a L American agenda for network research**
Publisher: ACM Press
Full text available: pdf(333.05 KB)   Additional Information: full citation, abstract, references, index terms

Wireless LANs based on the IEEE 802.11b standard have spread very quickly over the past few years. Nevertheless a lot of security issues remain and stop its deployment in corporations. One the most important issues is the authentication of a terminal to an Access Point. We propose an interface to integrate the Extensible Authentication Protocol into smartcards and will show that smartcards could constitute the de-facto device for authentication in Wireless LAN as they are fc GSM and will ...

Keywords: authentication, smartcard, wireless LANs

7 BITS: a smartcard protected operating system
Paul C. Clark, Lance J. Hoffman
November 1994 **Communications of the ACM**, Volume 37 Issue 11
Publisher: ACM Press

Full text available: pdf(3.80 MB)   Additional Information: full citation, references, citings, index terms

8 Formalizing the safety of Java, the Java virtual machine, and Java card
Pieter H. Hartel, Luc Moreau
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4
Publisher: ACM Press
Full text available: pdf(442.86 KB)   Additional Information: full citation, abstract, references, citings, index terms

We review the existing literature on Java safety, emphasizing formal approaches, and the impac
Java safety on small footprint devices such as smartcards. The conclusion is that although a lot
good work has been done, a more concerted effort is needed to build a coherent set of machine
readable formal models of the whole of Java and its implementation. This is a formidable task b
we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or
Common Crite ...

Keywords: Common criteria, programming

9 Parallel compiling techniques
Clarence A. Ellis
January 1971 **Proceedings of the 1971 26th annual conference**
Publisher: ACM Press
Full text available: pdf(836.70 KB)   Additional Information: full citation, abstract, references, citings, index terms

Currently, the software technology is not keeping up with the hardware technology. New softwa
must be planned to take advantage of new hardware innovations. This paper describes one sucl
effort. Techniques are described for carrying out the compilation process on a global highly-par
computer. The problem of data structures and organization within the parallel computer is
considered, and two organizations, called the horizontal and the vertical data organizations, are
investigated.

Keywords: Associative computer languages, Associative processing, Compilers, Content
addressing, Parallel compilers, Parallel compiling, Parallel computers, Parallel programming, Par
programming languages, Procedure oriented languages

10 Fortran 8X draft
Loren P. Meissner
December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4
Publisher: ACM Press
Full text available: pdf(21.36 MB)   Additional Information: full citation, abstract, index terms

Standard Programming Language Fortran. This standard specifies the form and establishes
interpretation of programs expressed in the Fortran language. It consists of the specification of
language Fortran. No subsets are specified in this standard. The previous standard, commonly
known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x".
Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this
standard. New features can b ...

11 The Manchester prototype dataflow computer
J. R Gurd, C. C Kirkham, I. Watson
January 1985 **Communications of the ACM**, Volume 28 Issue 1
Publisher: ACM Press

Full text available: pdf(3.09 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The Manchester project has developed a powerful dataflow processor based on dynamic tagging This processor is large enough to tackle realistic applications and exhibits impressive speedup fc programs with sufficient parallelism.

12 Adventures in building the Stony Brook video server

Michael Vernick, Chitra Venkatramani, Tzi-cker Chiueh

February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(1.17 MB)   Additional Information: full citation, references, citings, index terms

Keywords: experimental systems, multimedia storage servers, video servers

13 Regular papers: Multi-level similar segment matching algorithm for translation memories ai Example-based Machine Translation

Emmanuel Planas, Osamu Furuse

July 2000   **Proceedings of the 18th conference on Computational linguistics - Volume 2**

Publisher: Association for Computational Linguistics

Full text available: pdf(569.88 KB)   Additional Information: full citation, abstract, references

@We propose a dynamic programming algorithm for calculating the similarity between two segments of words of the same language. The similarity is considered as a vector whose coordinates refer to the levels of analysis of the segments. This algorithm is extremely efficient retrieving the best example in Translation Memory systems. The calculus being constructive, it ; gives the correspondences between the words of the two segments. This allows the extension o Translation Memory systems to ...

14 Efficient detection of all pointer and array access errors

Todd M. Austin, Scott E. Breach, Gurindar S. Sohi

June 1994 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1994 conference on Programming language design and implementation PLDI '94**, Volume 29 Issue 6

Publisher: ACM Press

Full text available: pdf(1.62 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present a pointer and array access checking technique that provides complete error coverac through a simple set of program transformations. Our technique, based on an extended safe pointer representation, has a number of novel aspects. Foremost, it is the first technique that detects all spatial and temporal access errors. Its use is not limited by the expressiveness of the language; that is, it can be applied successfully to compiled or interpreted languages with subscripted and mutabl ...

15 Token+constraint systems for tangible interaction with digital information

Brygg Ullmer, Hiroshi Ishii, Robert J. K. Jacob

March 2005 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(3.96 MB)   Additional Information: full citation, abstract, references, index terms

We identify and present a major interaction approach for tangible user interfaces based upon systems of tokens and constraints. In these interfaces, tokens are discrete physical objects whic represent digital information. Constraints are confining regions that are mapped to digital operations. These are frequently embodied as structures that mechanically channel how tokens be manipulated, often limiting their movement to a single degree of freedom. Placing and

manipulating tokens within sys ...

Keywords: Tangible interfaces, token+constraint interfaces

16 A Performance Evaluation of the Convex SPP-1000 Scalable Shared Memory Parallel Computer
Thomas Sterling, Daniel Savaresse, Peter MacNeice, Kevin Olson, Clark Mobarry, Bruce Fryxell, Phi Merkey
December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROI Volume 00 Supercomputing '95**
Publisher: ACM Press, IEEE Computer Society
Full text available: pdf(457.11 KB)
html(2.67 KB) ps   Additional Information: full citation, references, citings
(780.23 KB)

17 Interactive Editing Systems: Part II
Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: pdf(9.17 MB)   Additional Information: full citation, references, citings, index terms

18 Security: Zero-interaction authentication
Mark D. Corner, Brian D. Noble
September 2002 **Proceedings of the 8th annual international conference on Mobile computii and networking**
Publisher: ACM Press
Full text available: pdf(273.30 KB)   Additional Information: full citation, abstract, references, citings, index terms

Laptops are vulnerable to theft, greatly increasing the likelihood of exposing sensitive files. Unfortunately, storing data in a cryptographic file system does not fully address this problem. S systems ask the user to imbue them with long-term authority for decryption, but that authority be used by anyone who physically possesses the machine. Forcing the user to frequently reestablish his identity is intrusive, encouraging him to disable encryption.Our solution to this problem is Zero- ...

Keywords: cryptographic file systems, mobile computing, stackable file systems, transient authentication

19 Smart card evolution
Katherine M. Shelfer, J. Drew Procaccino
July 2002 **Communications of the ACM**, Volume 45 Issue 7
Publisher: ACM Press
Full text available: pdf(110.58 KB)   Additional Information: full citation, abstract, references, citings, index terms
html(31.22 KB)

Smart cards and their related technologies are an emerging component of electronic commerce worldwide. In some countries, they are revolutionizing aspects of commerce, healthcare, and recreation.

20
Streaming RAID: a disk array management system for video files

Fouad A. Tobagi, Joseph Pang, Randall Baird, Mark Gang
September 1993 **Proceedings of the first ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(178.50 KB) Additional Information: full citation, references, citings, index terms
ps(717.41 KB)

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